CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

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JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/NVR/W.No.07/CSR-988b/CEMENT/2019-20 Date: 20.06.2019

TEST REPORT ON CEMENT

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. N. Venkata Reddy** No. 92, 17th main road, 4th cross, J.C. Nagara, Mahalakshmipuram (P), Bangalore – 560086.
* Name of Work	:	Construction of drain from Gangamma Temple road to Chikkasiddappa Layout Amruthahalli in Ward No. 07, Byatarayanapura, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/29/2019-20 Dated : 15.06.2019
* Sample ID	:	Cement
Sample Received on	:	18.06.2019
Period of Testing	:	18.06.2019 to 20.06.2019

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	29.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	155 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	360 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Ashwin.N.D
AE(QC)

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Job No.: CTCE/BBMP/NVR/W.No.07/CSR-988b/SAND-Gradation/2019-20 20.06.2019

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Customer	:	**Mr. N. Venkata Reddy** No. 92, 17th main road, 4th cross, J.C. Nagara, Mahalakshmipuram (P), Bangalore – 560086.
* Name of Work	:	Construction of drain from Gangamma Temple road to Chikkasiddappa Layout Amruthahalli in Ward No. 07, Byatarayanapura, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/29/2019-20 Dated : 15.06.2019
* Sample ID	:	Fine Aggregates (Manufactured Sand)
Technical Reference	:	IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	:	18.06.2019
Date of Testing	:	20.06.2019

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	98.60	90-100	90-100	90-100	95-100
2.36	82.10	60-95	75-100	85-100	95-100
1.18	60.10	30-70	55-90	75-100	90-100
600 Micron	38.70	15-34	35-59	60-79	80-100
300 Micron	17.90	5-20	8-30	12-40	15-50
150 Micron	5.40	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

Note 1 :

For crushed stone sands, the permissible limit on 150-micron IS Sieve is increased to 20 percent. This does not affect the 5 percent allowance permitted in 4.3 of IS 383 applying to other sieve sizes.

Note 2 :

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Job No.: CTCE/BBMP/NVR/W.No.07/CSR-988b/AGG/GR/2019-20 20.06.2019

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. N. Venkata Reddy** No. 92, 17th main road, 4th cross, J.C. Nagara, Mahalakshmipuram (P), Bangalore – 560086.
* Name of Work	:	Construction of drain from Gangamma Temple road to Chikkasiddappa Layout Amruthahalli in Ward No. 07, Byatarayanapura, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/29/2019-20 Dated : 15.06.2019
* Sample ID	:	Coarse Aggregates (40mm)
Technical Reference	:	IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	:	18.06.2019
Date of Testing	:	20.06.2019

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.10	95-100	85-100
20	34.70	30-70	0-20
10	12.20	10-35	0-5
4.75	2.60	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/NVR/W.No.07/Steel/2019-20 24.06.2019

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. N. Venkata Reddy** No. 92, 17th main road, 4th cross, J.C. Nagara, Mahalakshmipuram (P), Bangalore – 560086.
* Name of work	:	Construction of drain from Gangamma Temple road to Chikkasiddappa Layout Amruthahalli in Ward No. 07, Byatarayanapura, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/29/2019-20 Dated : 15.06.2019
* Samples ID	:	10 mm Bar
Technical Reference	:	IS: 1786-2008 (RA-2013)
Date of Testing	:	24.06.2019

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	512	553	13.2	O.K	O.K

*Information is furnished by the Customer/Representative.

Civil-Tech Consultants & Engineers Bangalore

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Job No.: CTCE/BBMP/NVR/W.No.07/Steel/2019-20 24.06.2019

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. N. Venkata Reddy** No. 92, 17th main road, 4th cross, J.C. Nagara, Mahalakshmipuram (P), Bangalore – 560086.
* Name of work	:	Construction of drain from Gangamma Temple road to Chikkasiddappa Layout Amruthahalli in Ward No. 07, Byatarayanapura, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/29/2019-20 Dated : 15.06.2019
* Samples ID	:	12 mm Bar
Technical Reference	:	IS: 1786-2008 (RA-2013)
Date of Testing	:	24.06.2019

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	12	0.89	515	556	13.45	O.K	O.K

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Job No.: CTCE/BBMP/NVR/W.No.07/Steel/2019-20 24.06.2019

TEST REPORT ON REINFORCEMENT STEEL

*** Customer**	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Mr. N. Venkata Reddy** No. 92, 17th main road, 4th cross, J.C. Nagara, Mahalakshmipuram (P), Bangalore – 560086.
*** Name of work**	:	Construction of drain from Gangamma Temple road to Chikkasiddappa Layout Amruthahalli in Ward No. 07, Byatarayanapura, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/29/2019-20 Dated : 15.06.2019
*** Samples ID**	:	16 mm Bar
Technical Reference	:	IS: 1786-2008 (RA-2013)
Date of Testing	:	24.06.2019

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	16	1.58	516	557	13.6	O.K	O.K

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Job No.: CTCE/BBMP/NVR/W.No.07/CSR-988b/Cube/2019-20 12.08.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. N. Venkata Reddy** No. 92, 17th main road, 4th cross, J.C. Nagara, Mahalakshmipuram (P), Bangalore – 560086.
* Name of the work	:	Construction of drain from Gangamma Temple road to Chikkasiddappa Layout Amruthahalli in Ward No. 07, Byatarayanapura, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/29/2019-20 Dated : 15.06.2019
* Sample ID	:	RCC Storm Water Drain Raft Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	12.08.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.07.2019	12.08.2019	8.265	512.5	22.78
2	15.07.2019	12.08.2019	8.384	524.6	23.32
3	15.07.2019	12.08.2019	8.411	536.8	23.86

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Job No.: CTCE/BBMP/NVR/W.No.07/CSR-988b/Cube/2019-20 14.08.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. N. Venkata Reddy** No. 92, 17th main road, 4th cross, J.C. Nagara, Mahalakshmipuram (P), Bangalore – 560086.
* Name of the work	:	Construction of drain from Gangamma Temple road to Chikkasiddappa Layout Amruthahalli in Ward No. 07, Byatarayanapura, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/29/2019-20 Dated : 15.06.2019
* Sample ID	:	RCC Storm Water Drain Raft Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	14.08.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.07.2019	14.08.2019	8.395	522.9	23.24
2	17.07.2019	14.08.2019	8.274	514.8	22.88
3	17.07.2019	14.08.2019	8.156	506.3	22.50

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Job No.: CTCE/BBMP/NVR/W.No.07/CSR-988b/Cube/2019-20 16.08.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. N. Venkata Reddy** No. 92, 17th main road, 4th cross, J.C. Nagara, Mahalakshmipuram (P), Bangalore – 560086.
* Name of the work	:	Construction of drain from Gangamma Temple road to Chikkasiddappa Layout Amruthahalli in Ward No. 07, Byatarayanapura, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/29/2019-20 Dated : 15.06.2019
* Sample ID	:	RCC Storm Water Drain Raft Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	16.08.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.07.2019	16.08.2019	8.158	508.4	22.60
2	19.07.2019	16.08.2019	8.342	524.8	23.32
3	19.07.2019	16.08.2019	8.279	535.6	23.80

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Job No.: CTCE/BBMP/NVR/W.No.07/CSR-988b/Cube/2019-20 30.08.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer**	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. N. Venkata Reddy** No. 92, 17th main road, 4th cross, J.C. Nagara, Mahalakshmipuram (P), Bangalore – 560086.
*** Name of the work**	:	Construction of drain from Gangamma Temple road to Chikkasiddappa Layout Amruthahalli in Ward No. 07, Byatarayanapura, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/29/2019-20 Dated : 15.06.2019
*** Sample ID**	:	RCC Storm Water Drain Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
*** Grade of Concrete**	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	30.08.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.08.2019	30.08.2019	8.196	492.5	21.89
2	02.08.2019	30.08.2019	8.248	506.3	22.50
3	02.08.2019	30.08.2019	8.375	515.8	22.92

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Job No.: CTCE/BBMP/NVR/W.No.07/CSR-988b/Cube/2019-20 02.09.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. N. Venkata Reddy** No. 92, 17th main road, 4th cross, J.C. Nagara, Mahalakshmipuram (P), Bangalore – 560086.
* Name of the work	:	Construction of drain from Gangamma Temple road to Chikkasiddappa Layout Amruthahalli in Ward No. 07, Byatarayanapura, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/29/2019-20 Dated : 15.06.2019
* Sample ID	:	RCC Storm Water Drain Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	02.09.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.08.2019	02.09.2019	8.349	517.2	22.99
2	05.08.2019	02.09.2019	8.275	503.6	22.38
3	05.08.2019	02.09.2019	8.416	528.9	23.51

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Assistant Executive Engineer,
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Yelahanka Zone, B.B.M.P
Bangalore

CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2015 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/NVR/W.No.07/CSR-988b/Cube/2019-20 04.09.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer**	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Mr. N. Venkata Reddy** No. 92, 17th main road, 4th cross, J.C. Nagara, Mahalakshmipuram (P), Bangalore – 560086.
*** Name of the work**	:	Construction of drain from Gangamma Temple road to Chikkasiddappa Layout Amruthahalli in Ward No. 07, Byatarayanapura, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/29/2019-20 Dated : 15.06.2019
*** Sample ID**	:	RCC Storm Water Drain Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
*** Grade of Concrete**	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	04.09.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.08.2019	04.09.2019	8.149	478.6	21.27
2	07.08.2019	04.09.2019	8.275	487.5	21.67
3	07.08.2019	04.09.2019	8.363	499.2	22.19

*Information is furnished by the Customer/Representative.

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Note:

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****

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Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	09.09.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.08.2019	09.09.2019	8.349	516.2	22.94
2	12.08.2019	09.09.2019	8.276	506.7	22.52
3	12.08.2019	09.09.2019	8.152	494.8	21.99

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Cross Sectional Area	:	22500 mm^2
*** Grade of Concrete**	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	11.09.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.08.2019	11.09.2019	8.236	504.3	22.41
2	14.08.2019	11.09.2019	8.149	497.5	22.11
3	14.08.2019	11.09.2019	8.378	520.8	23.15

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Authorised Signatory

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* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Reccived on	:	15.09.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.08.2019	15.09.2019	8.249	485.2	21.56
2	18.08.2019	15.09.2019	8.375	493.4	21.93
3	18.08.2019	15.09.2019	8.476	506.7	22.52

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